

## Bulk Metal® Foil Technology Precision Trimming Potentiometers, 1 1/4 Inch Rectilinear, RJ12 Style - Industrial Trimmer



Product may not be to scale

### FEATURES

- Temperature Coefficient of Resistance (TCR):  
± 20 ppm/°C Maximum<sup>3)</sup> (- 55 °C to + 150 °C Ref. at + 25 °C);  
Through the wiper<sup>4)</sup>: ± 50 ppm/°C typical
- Load Life Stability: 0.5 % Maximum  $\Delta R$  under Full Rated Power for 2000 hours at + 85 °C
- Settability: 0.1 %
- Setting Stability: 0.1 % Typical<sup>2)</sup>; 0.5 % Maximum<sup>2)</sup>,  $\Delta SS$
- Power Rating<sup>5)</sup>: 0.5 watts at + 85 °C
- Resistance Range: 20  $\Omega$  to 10 k $\Omega$
- Tolerance: ± 20 %, ± 10 %

**TABLE 1 - MODEL SELECTION†**

MODEL	TERMINATION STYLE	AVERAGE WEIGHT (g)	STANDARD RESISTANCE VALUES (in $\Omega$ )	STANDARD TOLERANCE	POWER RATING at + 85 °C AMBIENT	NO. OF TURNS
1208 RJ12 Style	P-In Line PC Pins	2.5	20, 50, 100	± 20 %	0.5 W	25 ± 2
	Y-Staggered PC Pins <sup>1)</sup>	2.5				
	L-Flexible Wire Leads	3.3	200, 250, 500, 1K, 2K, 5K, 10K	± 10 %		
	LB-Flexible Wire Leads with bushings	5.1				

### NOTES:

- † See Figures 1 and 2 in this data sheet.
1. Preferred termination style for current 1-1/4 Inch rectilinear trimmers (staggered PC pins present a sturdier mounting arrangement for shock, vibration, and impact situations.)
  2. Maximum is 1.0 % A.Q.L. standard for all specifications except TCR. (For TCR information see notes 3 and 4). "Typical" is a designers reference which represents that 85 % of the lots supplied, over a long period of time, will be at least the figure stated or better.
  3. Maximum TCR applies to the 3 s (sigma) limit or 99.73 % of a production lot. (Measured end-to-end with wiper off the element.)
  4. Measurements of TCR through the wiper are influenced more by setting stability and the percentage of the total resistance in use (at the wiper) than by fundamental resistance change due to temperature alone. The parameter shown is a 2 s distribution typifying the behavior of the device when used with 40 % or more of the total resistance in use.
  5. Derated linearly from full power at + 85 °C to zero (0) watts at + 150 °C. See Figure 3 in this data sheet.
  6. Independent of resistance value. 3 W maximum available on special request.

### Special Available Options:

- Special Marking
- Special lengths for lead wires (L, LB Style)
- Hooked leads
- Alternate bushing and PC combinations
- Burn-in and screening operations

### ADDITIONAL SPECIFICATIONS:

- Contact Resistance Variation - CRV (noise): 10  $\Omega$  Maximum<sup>6)</sup>
- Hop-off: 0.25 % Typical; 1.0 % Maximum
- Operating Temperature Range: - 55 °C to + 150 °C
- Adjustment Turns: 25 ± 2
- Mechanical Stops: Wiper Idles - No Discontinuity

**TABLE 2 - ORDERING INFORMATION - 1208 SERIES PARTS**

Please specify Vishay Model 1208 Precision Trimming Potentiometers as follows:			
MODEL NO.	TERMINATION STYLE	RESISTANCE VALUE	TOLERANCE
1208	P	100R	10 %

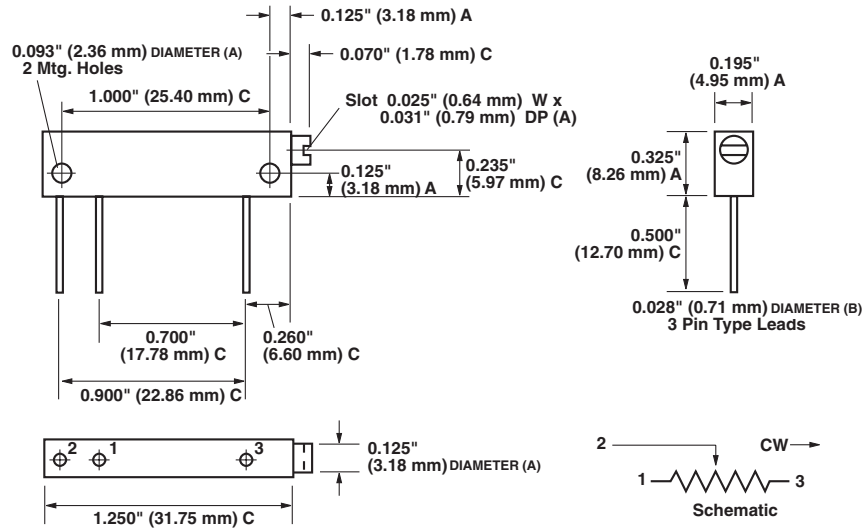
### NOTES:

- See Table 1 for Details.  
See Figure 1, next page for Standard Marking Illustration.

**FIGURE 1 - SCHEMATIC AND DIMENSIONS** in inches (millimeters)

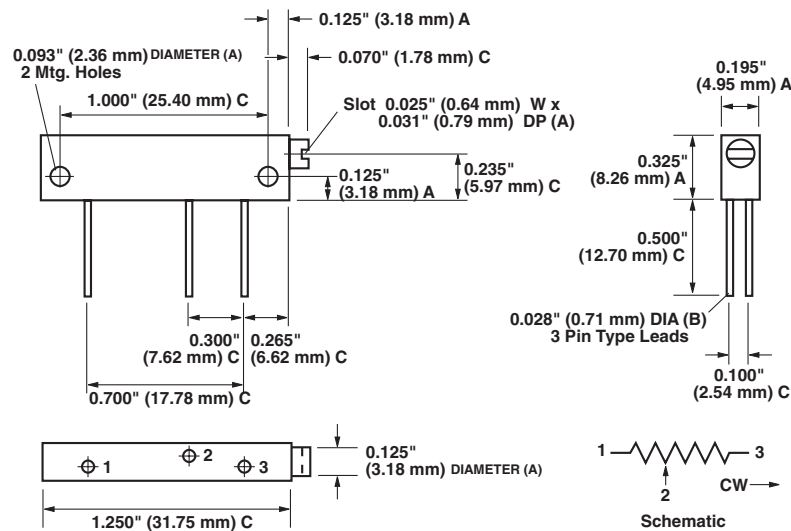
**1208P**

(In-Line Pins)<sup>1)</sup>



**1208Y**

(Staggered Pins)<sup>1)</sup>



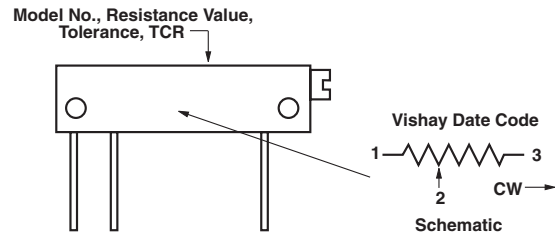
**TOLERANCES**

- A = ± 0.005 Inches (0.13 mm)
- B = ± 0.003 Inches (0.08 mm)
- C = ± 0.010 Inches (0.25 mm)

**NOTE:**

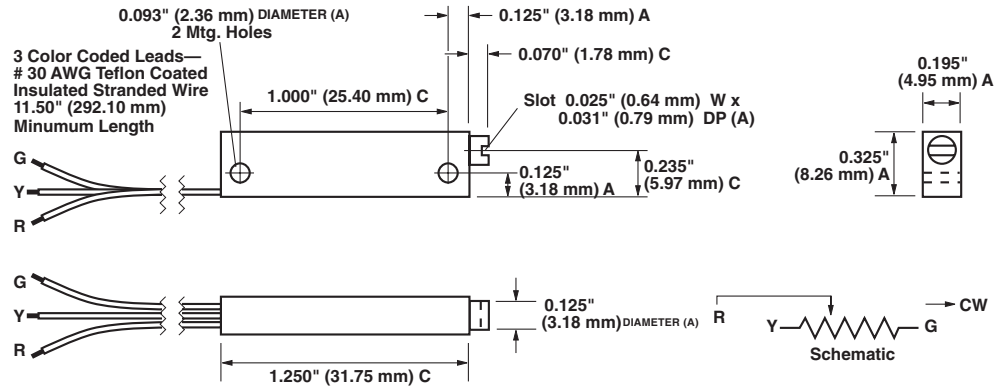
1. Pin leads are gold plated nickel which are solderable or weldable.

**STANDARD MARKING ILLUSTRATION**

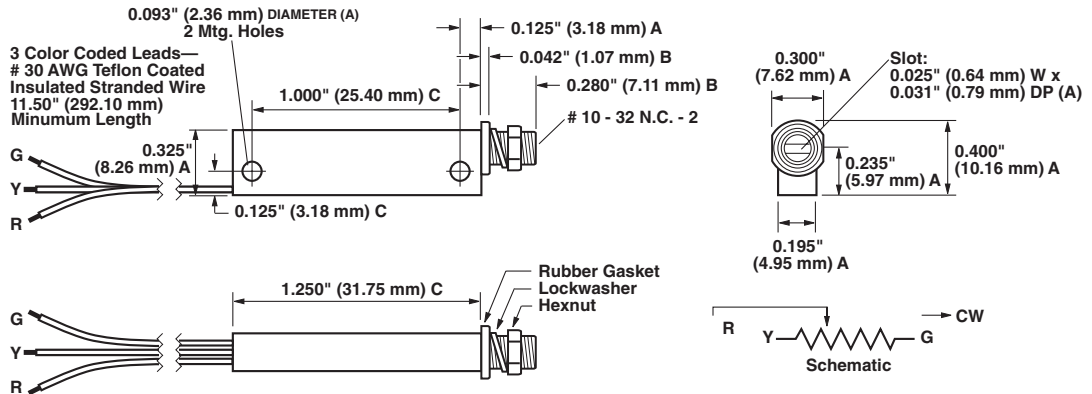


**FIGURE 2 - SCHEMATIC AND DIMENSIONS** in inches (millimeters)

**1208L**  
(Flexible Leads)



**1208LB**  
(Panel Mounted)

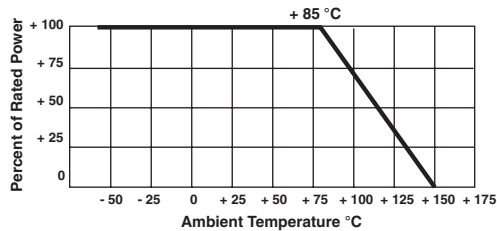


**TOLERANCES**

- A = ± 0.005 Inches (0.13 mm)
- B = ± 0.003 Inches (0.08 mm)
- C = ± 0.010 Inches (0.25 mm)

Standard marking shown on previous page.

**FIGURE 3 - POWER DERATING CURVE**



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